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2012 NISSAN XTerra OEM Service and Repair Workshop Manual

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NO>>

Repair or replace error-detected parts.

6. CHECK REFRIGERANT PRESSURE SENSOR SIGNAL CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Check for continuation between the refrigerant pressure sensor harness connector and the VCM harness connector.

+		-		Continuity
Refrigerant pressure sensor		VCM		
Connector	Terminal	Connector	Terminal	
B184	2	E48	133	Existing

4. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

Replace refrigerant pressure sensor. Refer to [Removal & Installation](#).

NO>>

Repair or replace error-detected parts.

1. CHECK FUSE

1. Power switch OFF.
2. Remove fuse # 90.
3. Check that the fuse is not blown.

Is the inspection result normal?

YES>>

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NO>>

Replace the fuse after repairing the applicable circuit.

2. CHECK FUSIBLE LINK

1. Remove fusible link # P.
2. Check that the fusible link is not blown.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Replace the fusible link after repairing the applicable circuit.

3. CHECK TRACTION MOTOR OIL PUMP RELAY CONTROL SIGNAL POWER SUPPLY

1. Install the removed fuse and the fusible link.
2. Remove traction motor oil pump relay.
3. Power switch ON.
4. Check voltage between the traction motor oil pump relay harness connector and ground.

+		-	Voltage
Traction motor oil pump relay			
Connector	Terminal		
E128	2	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 7.](#)

4. CHECK TRACTION MOTOR OIL PUMP RELAY POWER SUPPLY

1. Check voltage between the traction motor oil pump relay harness connector and ground.

+		-	Voltage
Traction motor oil pump relay			
Connector	Terminal		
E128	3	Ground	12 V battery voltage

Is the inspection result normal?

YES>>

[GO TO 5.](#)

NO>>

[GO TO 8.](#)

5. CHECK TRACTION MOTOR OIL PUMP RELAY CONTROL SIGNAL CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Check for continuity between the traction motor oil pump relay harness connector and the VCM harness connector.

+		-		Continuity
Traction motor oil pump relay		VCM		
Connector	Terminal	Connector	Terminal	
E128	1	E48	97	Existing

4. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

Repair or replace error-detected parts.

6. CHECK TRACTION MOTOR OIL PUMP RELAY

Check traction motor oil pump relay. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

NO>>

Repair or replace error-detected parts.

7. CHECK TRACTION MOTOR OIL PUMP RELAY CONTROL SIGNAL POWER SUPPLY CIRCUIT

1. Power switch OFF.

2. Check for continuation between the traction motor oil pump relay harness connector and fuse # 90 terminal.

+	-		Continuity
	Traction motor oil pump relay		
	Connector	Terminal	
Fuse # 90 terminal	E128	2	Existing

Is the inspection result normal?

YES>>

Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

NO>>

Repair or replace error-detected parts.

8. CHECK TRACTION MOTOR OIL PUMP RELAY POWER SUPPLY CIRCUIT

1. Power switch OFF.

2. Check for continuation between the traction motor oil pump relay harness connector and fusible link terminal.

+	-		Continuity
	Traction motor oil pump relay		
	Connector	Terminal	
Fusible link # P terminal	E128	3	Existing

Is the inspection result normal?

YES>>

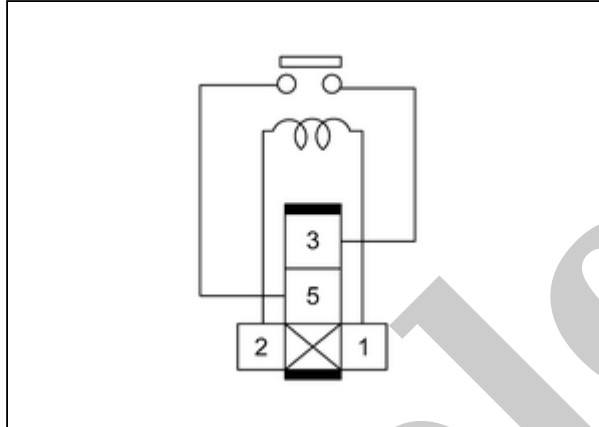
Perform trouble cause simulation test. Refer to [Intermittent Incident](#).

NO>>

Repair or replace error-detected parts.

1. CHECK TRACTION MOTOR OIL PUMP RELAY

1. Power switch OFF.
2. Remove traction motor oil pump relay. Refer to [Component Parts Location](#).
3. Check the traction motor oil pump relay under the conditions below.



SIEMD-7197050-01-000314821

Traction motor oil pump relay		Condition	Continuity
Terminal			
3	5	When 12 V battery voltage is applied between terminals 1 and 2	Existing
		When 12 V battery voltage is not applied	Non-existing

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace traction motor oil pump relay.

1. CHECK CHARGE CONNECTOR LOCK ACTUATOR CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector and charge connector lock actuator harness connector.
3. Check for continuation between the VCM harness connector and the charge connect lock actuator harness connector.

+		-		Continuity
VCM		Charge port		
Connector	Terminal	Connector	Terminal	
E47	94	E27	15	Existing
	95		14	

4. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO>>

Repair or replace error-detected parts.

2. CHECK CHARGE CONNECTOR LOCK ACTUATOR

Check charge connector lock actuator. Refer to [Component Inspection](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace charge port. Refer to [CHARGE PORT : Removal & Installation](#).

1. CHECK CHARGE CONNECTOR LOCK ACTUATOR

1. Power switch OFF.
2. Remove charge port. Refer to [CHARGE PORT : Removal & Installation](#).
3. Apply 12 V power supply to the terminals below and check charge connector lock actuator operation.

CAUTION:

- Take care not to damage the terminals while performing the work.
- Do not apply voltage for more than 1 second.

Charge port		Terminal	Operation
Connector			
E27	+	14	Operating
	-	15	
		15	
		14	

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Replace charge port. Refer to [CHARGE PORT : Removal & Installation](#).

1. CHECK EVSE CONNECTING SIGNAL CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Disconnect On-board charger harness connector.
4. Check for continuation between the VCM harness connector and the On-board charger harness connector.

+		-		Continuity
VCM		On-board charger		
Connector	Terminal	Connector	Terminal	
E47	88	E30	5	Existing

5. Also check harness for short to power supply and ground.

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

1. CHECK ACCELERATOR PEDAL POSITION SENSOR POWER SUPPLY-1

1. Power switch OFF.
2. Disconnect accelerator pedal position sensor harness connector.
3. Power switch ON.
4. Check voltage between the accelerator pedal position sensor harness connector terminals.

Accelerator pedal position sensor				Voltage (Approx.)
Sensor	Connector	+	-	
		Terminal		
1	E8	3	5	5 V
2		2	6	

Is the inspection result normal?

YES>>

[GO TO 6.](#)

NO>>

[GO TO 2.](#)

2. CHECK ACCELERATOR PEDAL POSITION SENSOR POWER SUPPLY-2

Check voltage between the accelerator pedal position sensor harness connector and ground.

Accelerator pedal position sensor			-	Voltage (Approx.)
Sensor	Connector	Terminal		
1	E8	3	Ground	5 V
2		2		

Is the inspection result normal?

YES>>

[GO TO 4.](#)

NO>>

[GO TO 3.](#)

3. CHECK ACCELERATOR PEDAL POSITION SENSOR POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Disconnect VCM harness connector.
3. Check for continuation between the accelerator pedal position sensor harness connector and the VCM harness connector.